

Minimum Qualification Specifications  
for the Class:

BOTANIST IV

**Prerequisite Knowledge and Abilities Required**

Knowledge of: Principles and practices of botany, including field survey and sampling techniques, and report presentation; general botanical and special references pertinent to native plants; and botanical laboratory and field equipment.

Ability to: Plan, organize, direct and conduct botanical field surveys; collect data and document findings efficiently, accurately, and completely; analyze and solve complex problems logically and systematically; read, comprehend and interpret technical journals and complex material; communicate effectively, both orally and in writing, with members of the scientific community and the general public; write clear and concise narrative reports, correspondence, contracts, etc.; establish and maintain effective and cooperative relationships with personnel of various public and private agencies, private landowners, and the general public; and use and maintain botanical laboratory and field equipment (e.g., microscopes, stereoscopes, global position monitors, and compasses).

**Basic Education/Experience Requirements**

Graduation from an accredited four (4) year college or university with a bachelor's degree and a major in botany or a closely related field which included courses in general botany and plant morphology, plant taxonomy, plant physiology and plant ecology.

Excess work experience as described under Specialized Experience below, or any other responsible administrative, professional or analytical work experience which provided knowledge, skills and abilities comparable to those acquired in four (4) years of successful study while completing a college or university curriculum leading to a baccalaureate degree with a major in botany or a closely related field may be substituted for the education on a year-for-year basis.

To be acceptable, the experience must have been of such scope, level and quality as to assure the possession of comparable knowledge, skills and abilities.

The education or experience must also demonstrate the ability to write clear and comprehensive reports and other documents, read and interpret complex written material, and solve complex problems logically and systematically.

### **Experience Requirements**

Applicants must have had progressively responsible experience of the kind, quality and quantity described in the following paragraphs, or any equivalent combination of training and experience.

Specialized Experience: Two and one-half (2 1/2) years of progressively responsible professional work experience in the field of Botany, which demonstrated knowledge of the principles, methods and techniques of botanical scientific analysis and of the following specific areas of Botany: plant anatomy, plant morphology, plant taxonomy, plant physiology, plant pathology, and plant ecology.

### **Substitutions Allowed**

1. A master's degree in Botany from an accredited college or university may be substituted for one (1) year of Specialized Experience.
2. A Ph.D. degree in Botany from an accredited college or university may be substituted for two (2) years of Specialized Experience.

### **Quality of Experience**

Possession of the required number of years of experience will not in itself be accepted as proof of qualification for a position. The applicant's overall experience must have been of such scope and level of responsibility as to conclusively demonstrate that he/she has the ability to perform the duties of the position for which he/she is being considered.

### **Selective Certification**

Specialized knowledge, skills and abilities may be required to perform the duties of some positions. For such positions, Selective Certification Requirements may be established and certification may be restricted to eligibles who possess the pertinent experience and/or training required to perform the duties of the position.

Agencies requesting selective certification must show the connection between the kind of training and/or experience on which they wish to base selective certification and the duties of the position to be filled.

**Tests**

Applicants may be required to qualify on an appropriate examination.

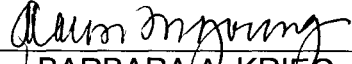
**Physical and Medical Requirements**

Applicants must be able to perform the essential functions of the position effectively and safely, with or without reasonable accommodation.

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This is amendment to the minimum qualification specifications for the class BOTANIST IV, which were approved on April 23, 1996.

DATE APPROVED: 8/13/2012

  
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BARBARA A. KRIEG, Director  
Department of Human Resources Development